

CLAIMS

We claim:

1. A method, comprising:
selecting a plurality of corners within an image projected on a projection surface; and
5 predistorting the image responsive to the selecting where the predistorted image
exhibits no distortion when projected on the projection surface.
2. The method of claim 1 comprising:
aligning a center of the image with a center of the projection surface.
- 10 3. The method of claim 2 where the distorting is responsive to the aligning.
4. The method of claim 2 where the aligning is before the selecting.
- 15 5. The method of claim 2 comprising fixing a center of the predistorted image
coincident with the center of the projection surface.
6. The method of claim 1 where the selecting comprises selecting two corners of
the image.
- 20 7. The method of claim 1 where the selecting comprises selecting four corners of
the image.
8. The method of claim 1 where the selecting comprises using an on screen
25 display means to do the selecting.
9. The method of claim 1 where the predistorting the image comprises scaling
the image.
- 30 10. The method of claim 9 where the scaling comprises vertically scaling the
image.
11. The method of claim 10 where the vertically scaling comprises calculating
vertical scalar registers.

12. The method of claim 9 where the scaling comprises horizontally scaling the image.

5 13. The method of claim 12 where the horizontally scaling comprises calculating horizontal scalar registers.

14. An apparatus, comprising:
means for selecting a plurality of corners within an image projected on a projection
10 surface; and
means for distorting the image responsive to the plurality of corners.

15 15. The apparatus of claim 14 comprising:
means for aligning a center of the image with a center of the projection surface.

16. The apparatus of claim 15 where the means for distorting is responsive to the center of the image.

20 17. The apparatus of claim 15 where the means for distorting fixes the center of the distorted image with the center of the projection surface.

18. The apparatus of claim 14 where the means for selecting is capable of selecting two corners of the image.

25 19. The apparatus of claim 14 where the means for selecting is capable of selecting four corners of the image.

20. The apparatus of claim 14 where the means for selecting comprises a means for on screen display to interact with a user to select the plurality of corners.

30 21. The apparatus of claim 14 where the means for distorting the image comprises means for scaling the image.

22. The apparatus of claim 21 where the means for scaling comprises means for vertically scaling the image.

23. The apparatus of claim 21 where the means for vertically scaling comprises
5 means for calculating vertical scalar registers.

24. The method of claim 21 where the means for scaling comprises means for horizontally scaling the image.

10 25. The apparatus of claim 24 where the means for horizontally scaling comprises means for calculating horizontal scalar registers.

26. An apparatus, comprising:
an interface to identify a plurality of corners of an image projected on a surface;
15 a controller to distort the image responsive to the plurality of corners.

27. The apparatus of claim 26 where the interface aligns the image with a center of the surface.

20 28. The apparatus of claim 26 where the interface is a graphical user interface.

29. The apparatus of claim 26 where the controller comprises:
a vertical scalar to vertically scale the image; and
a horizontal scalar to horizontally scale the image.

25 30. The apparatus of claim 29 where the controller sets scalar registers.

31. The apparatus of claim 30 where the vertical and horizontal scalars operate responsive to the scalar registers.

30 32. The apparatus of claim 26 where the plurality of corners is two.

33. The apparatus of claim 26 where the plurality of corners is four.

34. The apparatus of claim 26 where the controller generates a distorted image before projecting the distorted image on the surface.